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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/748,611	12/30/2003	David Lewis Myers	19191	7499	
23556 7	590 06/02/2006		EXAMINER		
	CLARK WORLDW	SALVATORE, LYNDA			
401 NORTH L NEENAH, WI			ART UNIT	PAPER NUMBER	
·			1771		

DATE MAILED: 06/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)					
Office Action Summary		10/748,611	MYERS ET AL.					
		Examiner	Art Unit					
_		Lynda M. Salvatore	1771					
Period f	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet with	the correspondence add	ress				
WHI - Exte afte - If Ni - Fail Any	HORTENED STATUTORY PERIOD FOR REPI CHEVER IS LONGER, FROM THE MAILING I ensions of time may be available under the provisions of 37 CFR 1 r SIX (6) MONTHS from the mailing date of this communication 1 O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statu reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA .136(a). In no event, however, may a rep d will apply and will expire SIX (6) MONTH te, cause the application to become ABAI	ATION.  ly be timely filed  IS from the mailing date of this com  NDONED (35 U.S.C. § 133).					
Status								
1)⊠	Responsive to communication(s) filed on 06 i	<u>March 2006</u> .						
2a)⊠	This action is <b>FINAL</b> . 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the r								
	11, 453 O.G. 213.							
Disposit	tion of Claims							
4)⊠	4) Claim(s) 1-27 is/are pending in the application.							
	4a) Of the above claim(s) 24-27 is/are withdra	awn from consideration.						
,—	Claim(s) is/are allowed.							
	Claim(s) <u>1-23</u> is/are rejected.							
·	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Applica	tion Papers							
•	The specification is objected to by the Examir							
10)	The drawing(s) filed on is/are: a)☐ ac	•						
	Applicant may not request that any objection to the	= : :						
4.43	Replacement drawing sheet(s) including the corre							
11)[	The oath or declaration is objected to by the E	Examiner. Note the attached t	Office Action of form PTC	J-152.				
Priority	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 1	l 19(a)-(d) or (f).					
a	)  All b) Some * c) None of:							
	1. Certified copies of the priority documer							
	2. Certified copies of the priority documer			<b>.</b>				
	3. Copies of the certified copies of the pri	•	eceived in this National S	stage				
	application from the International Bure	, , , ,	agaived					
•	See the attached detailed Office action for a lis	si or the certified copies not re	sceiveu.					
Attachme	nt(s)							

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date \_\_\_\_\_.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. \_\_\_\_\_.

6) Other: \_

5) Notice of Informal Patent Application (PTO-152)

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### **DETAILED ACTION**

## Response to Amendment

1. Applicant's amendment and accompanying remarks filed 03/06/06 have been fully considered and entered. Claims 1,12 and 23 have been amended as requested. Applicant's amendments are found sufficient to overcome the anticipation rejections made over Minemura et al., as set forth in sections 3,5 and 7 of the last Office Action. As such, these rejections are hereby withdrawn. However, an updated search produced new art for which to base a rejection. The following necessitated new ground of rejection is set forth herein below.

## Claim Rejections - 35 USC § 102

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-23 are rejected under 35 U.S.C. 102(a) as being anticipated by Chapman, US 6,514,324 in view of Pike et al., US 5,873,968.

The patent issued to Chapman teaches an electrostatic air filter comprising a central electrostatic pad comprising a lofty air laid web of polyester fibers held together with a thermosetting binder (abstract, column 2, 31-36, column 4, 62-column 5, 5 and 45-50, claim 1 and claims 8-9). With regard to claims 6 and 17, Chapman teaches mixing the binder and fibers together to form a uniform sheet as well as spray bonding the binder onto the sheet (column 7, 34-36 and column 9, 25-31,60-65). The Examiner considers mixing the binder and fibers to form a web equivalent to the claimed binder impregnated web. With regard to claims 7 and 18, Chapman teaches the claimed acrylic resin (column 9, 25-27). With regard to claims 8-10 and 19-21, Chapman teaches employing 38% binder (column 6, 36-45). With regard to claims 11

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and 22, the Examiner considers the teaching by Chapman to employing the acrylic resin to bond the fibers together to form a web sufficient to meet the limitation of "a resin which reinforces the web". With regard to claim 12, Chapman teaches pleating the filter (column 2, 35-40).

Chapman fails to explicitly teach a continuous spunbond web made from multicomponent fibers, however, the patent issued to Pike et al., teach a filter media comprising a
lofty spunbond fabric formed from continuous multi-component fibers (abstract, column 3, 4555 and column 4, 5-50). Pike et al., specifically teach bi-component fibers made from
polyethylene and polypropylene (column 4, 51-65). Pike et al., specifically teaches that the filter
exhibits high filtration efficiency and long service life (column 2, 10-20). Furthermore, Pike et
al., discloses that that the low-density and porous structure of the lofty layer provide numerous
paths and, thus, provide highly suitable means for mechanically and electrostatically trapping
particulates or contaminants (column 2, 45-50).

Therefore, motivated by the desire to provide a filter media having high filtration efficiency and long service life, it would have been obvious to one having ordinary skill in the art at the time the invention was made to form the central electrostatic web layer in the filter media taught by Chapman with the lofty spunbond web taught by Pike et al.

With specific regard to claim 23, although the combination of Chapman in view of Pike et al., does not explicitly teach the claimed yield stress and plastic recovery properties, it is reasonable to expect that said properties would be exhibited in the filter media provided by Chapman in view of Pike et al. Support for said presumption is found in the use of like materials such as an a spunbonded non-woven web comprising thermosetting acrylic binder and the use of

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like process such as pleating, which would result in the claimed yield stress and plastic recovery properties.

### Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynda M. Salvatore whose telephone number is 571-272-1482. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 15, 2006

SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 1700**